## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

Claims 1-7 (canceled)

Claim 8 (original): A method to fabricate a uniform force hydrostatic bolster plate, comprising:

selecting a set of physical dimensions for a bladder and a hollow plate incorporated in said uniform force hydrostatic bolster plate;

modeling said uniform force hydrostatic bolster plate after assembly on a substrate;

estimating an improved set of physical dimensions for said bladder and said hollow plate after modeling said uniform force hydrostatic bolster plate after assembly of said uniform force bolster plate and a component on said substrate;

fabricating a bladder prototype and a hollow plate prototype according to said improved set of physical dimensions; and

putting said bladder prototype filled with a substantially non-compressible material into said hollow plate prototype, such that said bladder prototype extends in height above said hollow plate prototype.

Claim 9 (original): The method of claim 8, wherein said uniform force hydrostatic bolster plate includes a material selected from a group of materials consisting of: a stainless steel alloy, a powder-coated spring steel alloy, a plated spring steel alloy, a painted spring steel alloy, a titanium steel alloy, a magnesium alloy, an aluminum alloy, a composite, or a plastic.

Claim 10 (original): The method of claim 8, wherein said component is a land grid array (LGA) component.

Claim 11 (original): The method of claim 8, wherein said bladder incorporates a substantially non-compressible liquid.

Claim 12 (original): The method of claim 8, wherein said bladder is made from an impermeable elastomeric material chosen from the group of impermeable elastomeric materials consisting of: a plastic, rubber, or a fabric.

Claim 13 (original): The method of claim 8, wherein said material inside said bladder is selected from a group of materials consisting of: water, a glycol solution, an oil mixture, a water-based gel, or an oil-based gel.

Claim 14 (currently amended): An assembled substrate, comprising:

a substrate having a first <u>side</u> and a second side, and an electrical contact area on said first side;

an electrical component having a plurality of leads attached to said electrical contact area of said substrate; and

a uniform force hydrostatic bolster plate attached to said second side of said substrate opposite said electrical contact area of said substrate, wherein said uniform force hydrostatic bolster plate includes:

- a bladder,
- a material inside said bladder, and
- a hollow plate to enclose said bladder, wherein said hollow plate is open on one side.

Claim 15 (original): The assembled substrate of claim 14, wherein said substrate is chosen from a group of substrates consisting of: a printed circuit board (PCB), a multi-chip module (MCM), and a flexible substrate.

Claim 16 (original): The assembled substrate of claim 14, wherein said component is a land grid array (LGA) component.

Claim 17 (original): The assembled substrate of claim 14, wherein said uniform force hydrostatic bolster plate includes a hollow plate fabricated from a material selected from a group of materials consisting of: a stainless steel alloy, a powder-coated spring steel alloy, a plated spring steel alloy, a painted spring steel alloy, a titanium steel alloy, a magnesium alloy, an aluminum alloy, or a plastic.

Claim 18 (original): The assembled substrate of claim 14, wherein said material of said bladder incorporates a substantially non-compressible liquid.

Claim 19 (original): The assembled substrate of claim 14, wherein said bladder is made from an impermeable elastomeric material chosen from a group of impermeable elastomeric materials consisting of: a plastic, a rubber, or a fabric.

Claim 20 (original): The assembled substrate of claim 14, wherein said material inside said bladder is selected from a group of materials consisting of: water, a glycol solution, an oil mixture, a water-based gel, or an oil-based gel.

Claim 21 (new): A uniform force hydrostatic bolster plate produced in accordance with the method of claim 8.

Claim 22 (new): A method to assemble a uniform force hydrostatic bolster plate to one side of a substrate having a first side and a second, comprising:

attaching a component to an electrical contact area on the second side of the substrate;

filling a bladder with a material;
inserting the bladder into a hollow plate; and
attaching the bladder and the hollow plate to the
first side of the substrate, wherein the bladder and the
hollow plate are attached to the first side which is

opposite the electrical contact area on the second side of the substrate; and

clamping the component and the hollow plate to the substrate.

Claim 23 (new): The method of claim 22, wherein the component is a land grid array (LGA) component.

Claim 24 (new): The method of claim 22, wherein the substrate comprises one of the following substrates: a printed circuit board (PCB), a multi-chip module (MCM), and a flexible substrate.

Claim 25 (new): The method of claim 22, wherein the hollow plate comprises one of the following materials: a stainless steel alloy, a spring steel alloy, a titanium steel alloy, a magnesium alloy, a composite, or a plastic.

Claim 26 (new): The method of claim 22, wherein the bladder incorporates a substantially non-compressible liquid.

Claim 27 (new): The method of claim 22, wherein the bladder comprises an impermeable elastomeric material selected from a group of materials consisting of: a plastic, a rubber, or a fabric.

Claim 28 (new): The method of claim 22, wherein the material inside the bladder is selected from a group of

materials consisting of: water, a glycol solution, an oil mixture, a water-based gel, or an oil-based gel.

Claim 29 (new): The method of claim 22, wherein the component is clamped to the substrate by use of a clamp.

Claim 30 (new): The method of claim 22, wherein the component and the hollow plate are clamped to the substrate by use of bolts.

Claim 31 (new): The method of claim 22, wherein the bladder has a height that extends above a height of the hollow plate before the hollow plate is clamped to the substrate.

Claim 32 (new): The method of claim 22, wherein the bladder conforms to a surface of the substrate after the hollow plate is clamped to the substrate.

Claim 33 (new): The method of claim 22, wherein the cavity of the hollow plate is filled by the bladder after the hollow plate is clamped to the substrate.

Claim 34 (new): The method of claim 22, wherein the hollow plate is designed by a method comprising:

selecting a first set of physical dimensions for the bladder and a second set of physical dimensions the hollow plate based upon a predicted uniform load from a clamping force that will be applied to a component and a substrate that will be coupled to the component and the hollow plate;

modeling the hollow plate by use of a threedimensional computer aided design software and a finite element analysis software, where the modeling involves a model of the hollow plate as assembled on the substrate with stresses; and

if the modeling of the hollow plate predicts that the hollow plate will not provide a uniform force after assembly to the substrate, then estimating an improved first set of physical dimensions for the bladder and an improved second set of physical dimension for the hollow plate after modeling the hollow plate so that the hollow plate will maintain a uniform force after assembly of the component and hollow plate on the substrate.

Claim 35 (new): A uniform force hydrostatic bolster plate produced in accordance with the method of claim 22.